third Reſervoir IKKL, with its Out-let X, are included in a Box YYYY. Into this Box at λ enters a Funnel ΓλΓ divided within the Box into two Pipes, *viz.* λO, which ſerves for a Feeding-Stream to the great Reſervoir, and λW, which ſerves for a conſtant Stream to the third Reſervoir. A Stream of Water being let into the Funnel ΓλΓ, will diſcharge itſelf like ſuch an intermitting Reciprocating Fountain at X, where there is a Baſon YZZZ without the Box to receive it; with an Out-let α, and a Diagonal Gage ZY, to mark the Riſe and Fall of the Water in the Baſon.

III. *Immerſiones, atque Emerſiones Satellitum* Jovis *Obſervatæ* Pekini *a P. P.* Ignatio Kegler, & Andrea Pereira, *Soc.* Jesu, *a menſe* Novem. 1730, *ad Rev^d.* P. Johannem Baptiſtam Carbone, *Soc.* Jesu, *R. S. S. tranſmiſſæ*; *et ex ejuſdem Cl. Viri Epiſtolâ ad* Jacobum de Caſtro Sarmento, *M. D. Col. Medic.* Lond. *L. & R. S. S.* excerptæ.

SATELL. I.

1730	Immerſiones	*Nov.*	3^d	18^h	00′	p. m.
			12	14	20	
			19	16	12	
			26	18	3	
		Dec.	5	14	22	54″
			12	16	11	30
			19	18	00	45

Dec.

1730	Immersiones	*Dec.*	21d	12h	28′	40″
			28	14	18	10
1731		*Jan.*	4	16	8	45
			6	10	35	20
			11	17	59	30
			13	12	27	10
			20	14	17	30
			27	16	10	12
		Feb.	3	18	2	36
			12	14	25	dub.
			14	8	54	20
		Mar.	2	9	30	
	Emersiones		9	11	27	40
			16	13	23	30
			18	7	52	40
		Apr.	1	11	45	20
			3	6	15	
			17	10	8	40
			24	12	4	30
		Mai.	3	8	29	50

SATELL. II.

1730	Immersiones	*Nov.*	25	16	5	30
		Dec.	2	18	37	dub.
			20	12	49	45
			27	15	21	5
1731		*Jan.*	3	17	49	50
			14	9	30	45
			28	14	37	30
		Feb.	4	17	10	
			15	8	59	

1731	Emerſ.	*Mar.* 19^{d}	11^{h}	29′	20″
		Apr. 13	8	35	
		20	11	16	

SATELL. III.

1730	Immer. *Nov.* 21	16	16	30	
	Emer. *Dec.* 20	11	27	50	
	Immer. 27	11	49	30	
	Emer.	15	21	17	
1731	Immer. *Jan.* 3	15	43	15	
	Emer.	19	16	dub.	
	Immer. *Feb.* 8	11	25	30	
	Immer. 15	15	23		
	Emer. *Mar.* 9	6	50	30	
	Emer. 16	10	50	50	
	Emer. 23	14	51	30	
	Emer. *Apr.* 21	6	56	20	
	Immer. 28	7	28	30	
	Emer.	10	55	30	
	Immer. *Mai.* 5	11	30	30	

SATELL. IV.

1730	Immer. *Dec.* 20	18	50	45	
1731	Immer. *Jan.* 6	12	38	12	
	Emer.	17	6	45	
	Emer. 23	10	54		
	Immer. *Mar.* 31	6 inter 30′ & 35′			
	Emer.	10	43	40	

Die 14 *Nov.* 1730 circa hor. 4. p. m. Luna obtexit Martem. Immerſio, claro adhuc die, videri non potuit: obſervata tamen eſt Emerſio, quæ accidit hor. 4. 54′ proximè Furnerium.

Die

Die 17 *Jan.* 1731, Obſervatus eſt tranſitus Lunæ per Pleiadas, ut ſequitur.

H.	′	″	*p. M.*
10	9	40	Immerſit Electra in recta per Platonem, & Eudoxum.
10	32	52	Immerſit Merope —— —— Copern. & Meſſallam.
10	38	15	Emerſit Electra —— —— Thaletem, & Eudoxum.
11	23	52	Immerſit præcedens lucidam Pleiadum (triplex Stellula) in recta per Eratoſth. & S. Cyrillum.
11	26	5	Immerſit lucida, ſeu Alcyone, Copern. & S. Cathar.
11	47	32	Emerſit Merope in recta per Tarunt. & S. Theophil.
12	1	10	Immerſit lucidior ex parvis ad Auſtrum Atlantis, in recta per Sulliald, & Cenſorinum.
12	12	12	Immerſit Atlas in recta per Copern. & Jul. Cæſar.
12	13	57	Emerſit Alcyone in recta per Marginem Orient. Poſſid. & Menelaum.
12	25	3	Immerſit Pleione in recta per Copern. & Ptolomeum.

1731, Die 14 *Mart.* ☾ occultavit Stellam ϰ in ♉ Immerſio accidit H. 8, 41′ 50″ *p. M.* in recta per Tatium, & Langrenum. Emerſit H. 9, 51′ a Firmico modicè ad Auſtrum.

Die

Die 20 *Mart.* ☾ occultavit Stellam π in ♌. Immerſio fuit H. 11, 13′ *p. M.* in recta per Merſenum, & Bullialdum. Emerſio H. 12, 31′ è regione Firmici.

Die 16 *April.* ☾ occultavit Stellam ο, in ♎. Immerſio fuit H. 8, 46′ 30″ *p. M* in recta per Bulliald. & Cenſorin. Emerſio H. 10, 5′ 45″ in recta per Taruntium, & Menelaum.

Eclipſis ☾ Die 29 *Julij*, 1730, *Pekini* ob denſè nubilatum Cœlum non potuit obſervari. Eam tamen obſervavit *P. Phil. Jac. Simonelli* in urbe *Chamxo* in provinciæ *Nankinenſis*, quæ *Pekino* ad ortum diſtat paulò plus 4 grad. Æquat. id eſt, 16 vel 17 min. temp. Initium Eclipſis ibi fuit H. 10, 55′ *p. M.* & finis H. 12, 49′, cum maxima obſcuratione digitorum ſinicorum 3, 10′. Itaque medium Eclipſis illic accidit H. 11, 52′, quod pro *Pekino* calculus dabat H. 11, 36′, cum differentia 16′ ſatis juſta.

Eandem Eclipſim in Regia *Cochinchinæ* obſervavit *P. Franciſcus de Lima.* Initium annotavit H. 9, 58′ *p. M.* & finem H. 11, 50′, adeoque medium ibi erat H. 10, 54′, unde exurgit differentia ejus Meridiani à *Pekino* ad Occid. 42′. temp. id eſt, 10° 30′ Æquat.